#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of MOORE et al.

Attorney Docket Not IMIVE

Serial No.:

09/965,097

Examiner:

Xiao M. Wu

Confirmation No.: 7204

Art Unit:

2673

Filed:

September 28, 2001

For:

DEVICE AND ASSEMBLY FOR PROVIDING LINEAR TACTILE SENSATIONS

U.S. Patent and Trademark Office 220 20<sup>th</sup> Street S. Customer Window, Mail Stop Amendment Crystal Plaza Two, Lobby, Room 1B03 Arlington, VA 22202

#### INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08A for the above-identified patent application.

- [] In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- [x] In accordance with 37 C.F.R. §1.97(c), also enclosed is:
  - [x] the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
  - [] a statement as specified in 37 C.F.R. §1.97(e).
- [] In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. § 1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- [x] Check in the amount of \$180.00 the total fee is attached.
- [x] A return receipt postcard is also enclosed.
- Please charge \$\_\_\_\_\_ to Deposit Account No. 50-1283 for the IDS fee as indicated on the Transmittal of Documents submitted herewith.

**RECEIVED** 

SEP 0 2 2004

08/31/2004 RADOF01 00000052 09965097 01 FC:1806 180.00 OP

Technology Center 2600

#### Attorney Docket No. IMMR-007/01US Serial No. 09/965,097 Page 2

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 50-1283.

Dated: August 30, 2004

Cooley Godward LLP ATTN: Patent Group One Freedom Square Reston Town Center 11951 Freedom Drive Reston, VA 20190-5656

Tel: (703) 456-8000 Fax: (703) 456-8100

216246 v1/RE 4M%%01!.DOC Respectfully submitted, COOLEY GODWARD LLP

By:

Christopher R. Hutter Reg. No. 41,087

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#### Attorney Docket No. IMMR007/01US

#### **PATENT**

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In	re	app	licat	tion	of	MC	ORE	et	al.
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# INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(c)

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56, Applicant(s) hereby submits the following information in conformance with 37 C.F.R. §\$1.97 and 1.98.

[x]	Pursuant to 37 C.F.R. §1.98, a copy of each document cited in the attached Form PTO/SB/08A is provided on enclosed CD.
O	No copies of the publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No to which the above-identified application claims priority under 35 U.S.C. §120.
[]	Publication(s) listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to application serial no and mailed on
	Enclosed is a copy of a non-English publication(s) Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
[]	Enclosed is a copy of a non-English publication(s) English language publication (copy enclosed) claims priority from this non-English publication.

SEP 0 2 2004

# Attorney Docket No. IMMR-007/01US Serial No. 09/965,097 Page 2

				explanation of non-English publication(s) for which an ation is not available.
	[]			English translation of non-English publication(s) cited Form PTO/SB/08A.
	[]	Enclos	sed is a	copy of pending patent Application Serial No
C.F.R.				closure Statement is filed after the period specified in 37 he mailing of:
		[x]	a final	action under 37 C.F.R. §1.113;
		[]	a notic	e of allowance under 37 C.F.R. §1.311; or
		[]	an acti	on that otherwise closes prosecution in this application.
	In acco	ordance	with 37	C.F.R. §1.97(c) also enclosed is:
		[x]	Fee un	der 37 C.F.R. §1.17(p) in the amount of \$180.00; or
		[]	Statem	ent as specified in 37 C.F.R. §1.97(e):
			[]	Each item of information contained in the Information Disclosure Statement cited herein was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of the Information Disclosure Statement; or
				No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, having made a reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing date of the Information Disclosure Statement.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

Dated: August 30, 2004

Respectfully submitted, COOLEY GODWARD LLP

Cooley Godward LLP ATTN: Patent Group One Freedom Square Reston Town Center 11951 Freedom Drive Reston, VA 20190-5656

Tel: (703) 456-8000 Fax: (703) 456-8100

216248 v1/RE 4M%W01!.DOC By: Christopher R. Hutter

Reg. No. 41,087

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Substitute for form 1449A/PTO

Application Number 09/965,097

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

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Sheet

	Complete if Known	
Application Number	09/965,097	
Filing Date	September 28, 2001	
First Named Inventor	David F. Moore	
Art Unit	2673	
Examiner Name	Xiao M. Wu	
Attorney Docket Number	IMMR007/01US	

		Document Number	U.S. PATENT DOC		
Examiner	Cite No.1	Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		20030201975	10/30/03	Bailey et al.	
		20020030663	3/14/02	Tierling et al.	
		6,717,573	4/6/04	Shahoian et al.	
		6,707,443	3/16/04	Bruneau et al.	
		6,697,043	2/24/04	Shahoian et al.	
		6,585,595	7/1/03	Soma et al.	
		6,424,333	7/23/02	Tremblay et al.	
		6,422,941	7/23/2002	Thorner et al.	
		6,317,032	11/13/01	Oishi	
		6,275,213	8/14/01	Tremblay et al.	
		6,211,861	4/3/01	Rosenberg et al.	
		6,198,206	3/6/01	Saarmaa et al.	
		6,184,868	2/6/01	Shahoian et al.	1
		6,160,489	12/12/2000	Perry et al.	
		6,111,577	8/29/2000	Zilles et al.	
		6,104,158	8/5/00	Jacobus et al.	
		6,088,019	7/11/00	Rosenberg	
		6,088,017	7/11/00	Tremblay et al.	
		6,078,126	6/20/00	Rollins et al.	
		6,044,646	4/4/00	Silverbrook	
		6,004,134	12/21/99	Marcus et al.	
		6,001,014	12/14/99	Ogata et al.	
		5,986,643	11/16/99	Harvill et al.	
		5,984,880	11/16/99	Lander et al.	
		5,973,670	10/26/99	Barber et al.	PECEIVED
		5,945,772	8/31/99	Macnak et al.	
		5,914,705	6/22/99	Johnson et al.	SEP 0 2 2004
		5,897,437	4/27/99	Nishiumi et al.	3EF 0 & 2004
		5,894,263	4/13/99	Shimakawa et al.	
		5,889,672	3/30/99	Schuler et al.	Technology Center 26
		5,857,986	1/12/99	Moriyasu	
		5,805,140	9/8/98	Rosenberg et al.	
		5,790,108	8/4/98	Salcudean et al.	
		5,784,052	7/21/98	Keyson	
Examiner Signature				Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute	e for form 1449A/PTC	2			Complete if Known	
				Application Number	09/965,097	
INFO	RMATION	DIS	CLOSURE	Filing Date	September 28, 2001	
STAT	TEMENT B	Y A	PPLICANT	First Named Inventor	David F. Moore	
				Art Unit	2673	
	(use as many she	ets as	necessary)	Examiner Name	Xiao M. Wu	
Sheet	2	of	7	Attorney Docket Number	IMMR007/01US	

		Document Number	U.S. PATENT DOC	1	
Examiner	Cite No.1	Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee o Applicant of Cited Docu	
		5,781,172	7/14/98	Engel et al.	
		5,754,023	5/19/98	Roston et al.	
		5,742,278	4/21/98	Chen et al.	
		5,739,811	4/14/98	Rosenberg et al.	
		5,736,978	4/7/98	Hasser et al.	
		5,734,373	3/31/98	Rosenberg et al.	
		5,714,978	2/3/98	Yamanaka et al.	
		5,709,219	1/20/98	Chen et al.	
		5,690,582	11/25/1997	Ulrich et al.	
		5,684,722	11/4/97	Thorner et al.	
		5,669,818	9/23/97	Thorner et al.	
		5,661,446	8/26/97	Anderson et al.	
		5,643,087	7/1/97	Marcus et al.	
		5,631,861	5/20/97	Kramer	
		5,619,180	4/8/97	Massimino et al.	
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		5,583,478	12/10/96	Renzi	
		5,580,251	12/3/96	Gilkes et al.	
		5,575,761	11/19/1996	Hajianpour	
		5,565,840	10/15/96	Thorner et al.	
		5,440,183	8/8/95	Denne	
		5,437,607	8/1/1995	Taylor	
		5,436,622	7/25/1995	Gutman et al.	
		5,405,152	4/11/95	Katanics et al.	
		5,399,091	3/21/95	Mitsumoto	RECEIVED
		5,388,992	2/14/95	Franklin et al.	THE CEIVED
		5,354,162	10/11/94	Burdea et al.	
		5,296,871	3/22/94	Paley	SEP 0 2 2004
		5,283,970	2/8/1994	Aigner	
		5,203,563	4/20/93	Loper, III	Technology Center 260
		5,186,695	2/16/1993	Mangseth et al.	1,72,
		5,186,629	2/16/93	Rohen	
		5,184,319	2/2/93	Kramer	
Examiner Signature		1 41.0 10.0		Date Considered	

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<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute	e for form 1449A/PTC	)	_	Complete if Known				
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INFO	RMATION	DIS	CLOSURE	Filing Date	September 28, 2001			
STAT	<b>TEMENT B</b>	Y A	PPLICANT	First Named Inventor	David F. Moore			
				Art Unit	2673			
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Sheet	3	of	7	Attorney Docket Number	IMMR007/01US			

			U.S. PATENT DOC	UMENTS	
		Document Number			
Examiner	Cite No.1	Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,175,459	12/29/1992	Danial et al.	
		5,165,897	11/24/1992	Johnson	
		5,146,566	9/8/92	Hollis, Jr. et al.	
		5,107,262	4/21/92	Cadoz et al.	
		5,103,404	4/7/92	McIntosh	•••
		5,022,384	6/11/1991	Freels	
		4,885,565	12/5/1989	Embach	
		4,868,549	9/19/89	Affinito et al.	
		4,795,296	1/3/89	Jau	
		4,731,603	3/15/88	McRae et al.	
		4,706,294	11/10/87	Ouchida	
		4,484,191	11/20/1984	Vavra	
		4,464,117	8/7/1984	Foerst	
		4,414,984	11/15/83	Zarudiansky	
		4,333,070	6/1/1982	Barnes	
		4,262,549	4/21/1981	Schwellenbach	
		4,127,752	11/28/1978	Lowthorp	
		3,919,691	11/11/75	Noli	
		2,972,140	2/14/1961	Hirsch	
		RE37,374	9/18/01	Roston et al.	

Examiner	Cite	Foreign Patent Document		Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Initials*	No.1	Country Code <sup>3</sup>	Number⁴	Kind Code <sup>5</sup> ( <i>if known</i> )	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear
		JP	H2-185278		7/19/1990	Taito Corporation	DECENTED
		JР	H4-8381		1/13/1992	Epoch Co. and Key- Planning Co.	KECEIVED
		JP	H7-24147		1/27/1995	Sega Corporation	050 0 0 0004
		JP	H5-192449		8/3/1993	Taito Corporation	SEP 0 2 2004
		wo	92/00559		1/9/1992		
		EP	0607580	A1	7/271994		echnology Center 2600
		EP	0265011		4/27/1988		
		EP	0626634	A2	5/11/1994		

Examiner Signature	Date Considered		

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Index the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995 Substitute for form 1449A/PTO Complete if Known **Application Number** 09/965,097 INFORMATION DISCLOSURE Filing Date September 28, 2001 STATEMENT BY APPLICANT First Named Inventor David F. Moore 2673 Art Unit (use as many sheets as necessary) Xiao M. Wu **Examiner Name** IMMR007/01US Sheet Attorney Docket Number

Examiner	Cite	Foreign Patent Document				Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Initials*	No.1	Country Code <sup>3</sup>	Number⁴	Kind Code <sup>6</sup> (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	
•		wo	01/03105		1/11/2001			
		wo	01/24158		4/5/2001			
		wo	97/31333		8/28/1997			
		wo	01/13354		2/22/2001			
		wo	98/32112		7/23/19.98			
		wo	99/40504		12/8/1999			
		wo	02/27705		4/4/2002			

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Examiner Signature	Date Con:	sidered

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INFORMATION DISCLOSURE				Filing Date	September 28, 2001		
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	David F. Moore		
				Art Unit	2673		
	(use as mar	y sheets as	necessary)	Examiner Name	Xiao M. Wu		
Sheet	5	of	7	Attorney Docket Number	IMMR007/01US		

	1	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
		PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," <i>Master of Science Thesis</i> , MIT, Aug. 1990, archived Nov. 8, 1990.				
		CALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," Bachelor of Science Thesis, MIT, May 1983, archived June 23, 1983.				
		WIKER, "Teletouch Display Development: Phase 1 Report," <i>Technical Report 1230</i> , Naval Ocean Systems Center, San Diego, July 1988.				
		BLISS, "Optical-to-Tactile Image Conversion for the Blind," IEEE Transactions on Man-Machine Systems, Vol. MMS-11, No. 1, March 1970.				
		JOHNSON, "Shape-Memory Alloy Tactile Feedback Actuator," Armstrong Aerospace Medical Research Laboratory, AAMRL-TR-90-039, August, 1990.				
		KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," PRESENCE, 4(4):387-402, Harvard Univ., 1995.				
		AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.				
		EBERHARDT et al., "Inducing Dynamic Haptic Perception by The Hand: System Description and Some Results," DSC-Vol. 55-1, Dynamic Systems and Control: Volume 1, ASME 1994.				
		GOBEL et al., "Tactile Feedback Applied to Computer Mice," International Journal of Human-Computer Interaction, Vol. 7, No. 1, pp. 1-24, 1995.				
		PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 <sup>nd</sup> Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.				
		"Cyberman Technical Specification," Logitech Cyberman SWIFT Supplement to Logitech Mouse Technical Reference and Programming Guide, 4/5/1994.				
		OUHYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95, Seoul, Korea, 21-24 August 1995.				
		KACZMAREK et al., "Tactile Displays," Virtual Environment Technologies, Chap. 9, pp. 349-414.				
LAKE, "Cyberman from Logitech," at http://www.ibiblio.org/GameBytes/issue21/greviews/cyt		LAKE, "Cyberman from Logitech," at http://www.ibiblio.org/GameBytes/issue21/greviews/cyberman.html, 1994.	ier 260			
	"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part no. C-25502," Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages).					
Examiner Signature		Date Considered				

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<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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		OTHER PRIOR ART - NON PATER	IT LITERATUR	E DOCUMENTS			
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LET item (book, magazine, journal, serial, syr number(s), publisher, c	nposium, catalog	, etc.), date, page(s), volume-is			
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Examiner Signature			Date Considered	100	,,,,,,,,,,	, Ju	116

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		KIM, Won, "Telemanipulator Technology and Space Telerobotics," SPIE Proceedings, 1993, Vol. 2057, pp. 40-50.				

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